



## MATERIAL SAFETY DATA SHEET

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier : CSM-38  
Chemical Name : Not Applicable, A Blend  
Chemical Family : Not Applicable, A Blend  
Manufacturer : CESI Chemical (a Flotek Industries, Inc. company)  
1004 S. Plainsman Road, Marlow, OK 73055  
Emergency Phone : 1-405-282-8510  
Prepared by : Denise Patterson  
Phone : (580)-658-6608  
Issue Date : 08/25/91  
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### 2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient : This product does not contain any reportable hazardous components as defined in 29 CFR 1910. 1200  
CAS No. :  
Wt. Percent Range :  
OSHA PEL :  
ACGIH TLV :  
LD50 :  
LC50 :

### 3. HAZARDS IDENTIFICATION

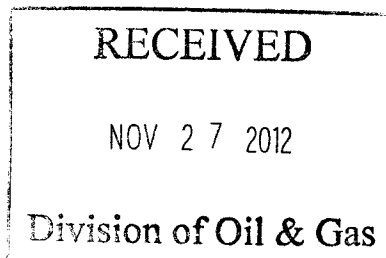
Human health hazards  
Acute health hazards : Irritant  
Chronic health hazards : Defatting and dermatitis of the skin  
Route(s) of entry : Eyes, skin, inhalation and ingestion  
Safety hazards : None known  
Environmental hazards : No information is available on the product.

### 4. FIRST AID MEASURES

Eye : Remove contact lenses at once. Immediately flush with copious amounts of water for at least 15 minutes while holding eyelids open. If irritation persists, seek medical attention.  
Skin : Wash affected area thoroughly with soap and water for at least 15 minutes or until product is removed. Remove contaminated clothing and launder before reuse. If irritation develops, seek medical attention.  
Inhalation : Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Seek prompt medical attention.  
Ingestion : Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.

### 5. FIRE FIGHTING MEASURES

Flash Point : Not applicable  
Lower Explosion Limit : Not applicable  
Upper Explosion limit : Not applicable  
Extinguishing Media : Use appropriate extinguishing media for surrounding fire.  
Protective equipment : NIOSH/MSHA approved self-contained breathing apparatus (SCBA) and turnout gear.  
Hazardous combustion products : Oxides of carbon and oxides of nitrogen



## 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions : Wear hand, eye, protective clothing and respiratory protective equipment to eliminate contact.
- General precautions : Eliminate ignition sources. Evacuate all non-essential personnel.
- Small spills : Soak up residue with an inert absorbent and place into appropriate containers for disposal or reclamation. Flush contaminated area thoroughly with water. Retain washings as contaminated waste.
- Large spills : If possible stop the flow of chemical. Dike to contain and prevent spreading. Remove with vacuum truck or pump to salvage vessels. Treat residue as for small spills.

## 7. HANDLING AND STORAGE

- Handling : Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Use with adequate ventilation. Do not take internally. Wear appropriate protective clothing and equipment during handling. Wash thoroughly after handling. Remove contaminated clothing and launder before reuse.
- Storage : Keep container closed when not in use. Store drums with the bung up. Carefully vent container before removing bung.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Occupational exposure standards : Not established for the product.
- Hand protection : Nitrile rubber gloves.
- Eye protection : Chemical splash goggles and face shield if conditions warrant.
- Respiratory protection : Not normally required.
- Engineering control measures : General (mechanical) room ventilation is expected to be satisfactory.
- Other : Emergency eye wash fountains and safety showers should be in the immediate vicinity of any potential exposure.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : Liquid
- Appearance : Clear
- Color : Colorless
- Odor : Ammonia
- Specific Gravity : 1.144
- Bulk Density : 9.55
- Boiling Point : 220<sup>0</sup> F (104.4<sup>0</sup>C)
- Freezing Point : <0<sup>0</sup> F (<-17.8<sup>0</sup>C)
- Solubility in water : Complete
- pH : 6-8
- Percent Volatiles : Not applicable
- Vapor Pressure : Not applicable

## 10. STABILITY AND REACTIVITY

- Stability : Stable
- Conditions to avoid : None known
- Hazardous polymerization : Will not occur
- Hazardous decomposition products : Oxides of carbon and oxides of nitrogen
- Incompatibility : Strong oxidizing agents

## 11. TOXICOLOGICAL INFORMATION

- Acute Effects
- Eye : May cause moderate to severe irritation.
- Skin : May cause mild to moderate irritation with brief contact. Prolonged contact may cause severe irritation, drying, defatting and dermatitis.
- Inhalation : May cause nose, throat and general upper respiratory tract irritation.
- Ingestion : May cause irritation of the mouth, throat and gastrointestinal tract.
- Chronic Effects : No other known chronic effects.
- Carcinogenicity : None of the ingredients are listed in NTP, IARC monographs or OSHA regulated.

## 12. ECOLOGICAL INFORMATION

- Environmental Fate : No information is available on the product.

**13. DISPOSAL CONSIDERATIONS**

Waste disposal : Recycle if possible. Otherwise dispose to licensed disposal contractor.  
Product disposal : Recycle if possible. Otherwise comply with all local, state and federal regulations.  
Container disposal : Drain container thoroughly. Triple rinse with water. Send to reclaimer or dispose of properly. Comply with all local, state and federal regulations.

**14. TRANSPORT INFORMATION**

United States D.O. T.  
DOT Shipping Name : Not Regulated  
Label(s) required : None  
Hazard Class : Not applicable  
UN/NA number : Not applicable  
Packaging group : Not applicable  
Emergency Phone : (405) 282-8510

**15. REGULATORY INFORMATION**

This document has been prepared in accordance with the MSDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

OSHA Classification : Hazardous

TSCA (USA) : All components listed.  
DSL (Canada) : All components listed.

SARA Title III  
Section 302 : Extremely Hazardous Substances (40CFR355): This product does not contain ingredients listed in Appendix A and B.

Sections 311/312  
Immediate (acute) health hazard : YES

Delayed (chronic) health hazard : YES

Fire hazard : NO

Sudden Release of Pressure Hazard : NO

Reactive Hazard : NO

Section 313 Reportable Quantities : None

CERCLA  
If the reportable quantity of this product is accidentally spilled, the incident is subject to the provisions of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) and must be reported to the National Response Center by calling (800) 424-8802.

Reportable Quantity : None

**16. OTHER INFORMATION**

NFPA 704  
Health : 1  
Fire : 0  
Reactivity : 0  
Special : None

HMIS  
Health : 1  
Fire : 0  
Reactivity : 0  
Special : None

Disclaimer of Liability : The information contained in this MSDS was obtained from sources that we believe are reliable. However, the information is without any warranty, express or implied, regarding correctness. The methods of handling, storage, use and disposal of the product are beyond our control and may be outside the scope of our knowledge. For these reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any

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